	WATER QUALITY DATA SETS CONSIDERED FOR the 2008 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments	
Citizen Monitoring Pr					
Ambient data for general water quality monitoring	ALUS – DO, pH, temperature, Secchi, salinity,	Alliance for the Chesapeake Bay Laurel Woodworth 804-775-0951 www.AllianceChesBay.org	QA/QC review by DEQ Gary Du, 804-698-4189 Upon review of the sample collection protocols and analytical methods, dissolved oxygen using EPA protocols, and temperature readings collected after April 2003 were determined acceptable for assessment use. Dissolved oxygen and pH not following EPA protocols are acceptable for assessment for water quality as VA Category 3C or 3D.	Reference February 12, 2004 letter to Alliance for the Chesapeake Bay. Data for, Secchi depth, and salinity were not used for assessment because the state does not have water quality standards for comparison.  136 stations with 6,353 sample events over the six year assessment window.	
Ambient data for general water quality monitoring	SWIM- E. coli	Arlington County Volunteer E. Coli Monitors Aileen Winquist Dept. Environmental Services 703-228-3610 www.arlingtonva.us	QA/QC review by James Beckley, 804-698-4025. Upon successful completion of training, E. coli data using Coliscan® Easygel™, E. coli data was used for assessment of water quality as VA Category 3C or 3D	Reference letter February 15, 2008 to Aileen Winquist  10 stations with 87 samples collected from October 2005 to June 2006.	
Ambient data for general water quality monitoring	ALUS- Temperature, Nitrates, DO, Orthophosphate, Ammonia, Sulfide, Fecal coliform, Carbon Dioxide	Ashburn Village Monitors Shannon Groves	QA/QC review by DEQ James Beckley, 804-698-4025. Based on review of the analytical methods used, temperature, DO, ammonia, and nitrate were determined unacceptable for assessment.	Reference letter February 15, 2008 to Shannon Groves. Data for nitrates, orthophosphate, sulfide, fecal coliform, and carbon dioxide were not used for assessment since the state does not have water quality standards for comparison.  12 stations monitored from 2004 to 2006	

	WATER QUALITY	DATA SETS CONSIDERED F	FOR the 2008 305(b) ASSESSMENT	•
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments
Citizen biological monitoring program using Audubon Naturalist Society protocols	ALUS – Benthic macroinvertebrates, temperature and pH	Audubon Naturalist Society Cliff Fairweather 703-803-8400 www.audubonnaturalist.org	QA/QC review of pH protocol by DEQ Gary Du, 804-698-4189 QA/QC plan and SOPs for benthic macroinvertebrates The method used for pH was determined unacceptable for use in the assessment. Benthic macroinvertebrate data were used for assessment of water quality as VA Category 3C or 3D.	Reference letter of October 15, 2001 to Cliff Fairweather.  22 stations with 232 sampling events over the six year assessment window.
Ambient data for general water quality monitoring	ALUS- Temperature, pH, DO, nitrate, orthophosphate, ammonia, conductivity, total dissolved solids, SWIM-E. coli	Blackwater Nottoway Riverkeeper Jeff Turner 757-562-5173 blknotkpr@earthlink.net	QA/QC review by DEQ James Beckley, 804-698-4025. Upon review of protocols and methods used, temperature, pH, DO, ammonia, nitrate, and E. coli were determined unacceptable for assessment.	Reference letter February 15, 2008 to Jeff Turner. Conductivity, nitrates, orthophosphate, and total dissolved solids were not used for assessment since the state does not have water quality standards for comparison.  11 stations with 77 sample events collected from March to October 2006.
Ambient data for general water quality monitoring	ALUS- DO, pH, temperature	Chesapeake Bay Governors School/ Tidewater RC&D Pat Tyrell 804-443-1118 www.tidewaterrcd.org  Kevin Goff 804-443-0267 www.cbgs.k12.va.us	QA/QC review by DEQ Gary Du, 804-698-4189 Upon review of the sample collection protocols and analytical methods, DO, pH, and temperature data using DEQ protocols is acceptable for assessment use.	Reference QAPP signed October 2003  12 stations with 94 sample events from January 2004 to December 2006
Ambient data for general water quality monitoring	SWIM – E. coli	Clean Virginia Waterways/Longwood University Katie Register 434-395-2602	QA/QC review by DEQ Gary Du, 804-698-4189 Upon review of the sample collection protocols and analytical methods, E. coli data collected	Reference letter of February 12, 2004 to Katie Register and November 15, 2004 to Dr. David Buckalew

	WATER QUALITY DATA SETS CONSIDERED FOR the 2008 305(b) ASSESSMENT			
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments
		www.longwood.edu/cleanva	using EPA protocols that are acceptable for assessment use.	21 stations with 189 sample events
Ambient data for general water quality monitoring	ALUS-temperature, pH, dissolved oxygen, nutrients	Environmental Alliance for Senior Involvement (EASI) Jon Holmes www.easi.org	QA/QC review by James Beckley, 804-698-4025. Upon review of the sample collection protocols and analytical methods, temperature data meets DEQ criteria and is accepted for assessment use. Test methods for pH, dissolved oxygen, and nutrients do not meet EPA criteria and are not accepted for assessment use.	1 station with 21 sample events from April 2003 to December 2004
Ambient lake monitoring	ALUS – total phosphorus, nitrate, chlorophyll <i>a,</i> Secchi SWIM – Fecal coliform	Ferrum College/Smith Mountain Lake Association Dr. Carolyn Thomas 540-365-4368 www.smlassociation.org	QA/QC review by DEQ Gary Du, 804-698-4189 Upon review of the sample collection protocols, analytical methods, and lab audit, the data were determined unacceptable for assessment due to deviations from Standard Methods.	Reference letter of February 12, 2004 to Dr. Thomas.  105 stations with approximately 3,780 sample events collected during the six year assessment window.
Ambient data for general water quality monitoring	SWIM- E. coli	Friends of Blacks Run Greenway John Reeves 540-433-9358	QA/QC review by James Beckley, 804-698-4025. Upon successful completion of training, E. coli data using Coliscan® Easygel™, E. coli data was used for assessment of water quality as VA Category 3C or 3D.	Reference letter February 15, 2008 to John Reeves  15 stations with 152 observations from August 2005 to December 2006.
Ambient data for general water quality monitoring	ALUS – DO, pH, temperature, nitrate, phosphate, ammonia, turbidity	Friends of the Shenandoah River Karen Andersen 540-665-1286 www.fosr.org	QA/QC review by DEQ Gary Du, 804-698-4189 The methods and sample collection protocols collected after June 2004 were determined acceptable for assessment for dissolved oxygen, pH, ammonia, and temperature.	Reference letter of October 6, 2004 to Karen Andersen. Data for nitrate and orthophosphate were not used for assessment because the state does not have water quality standards for comparison. The state water quality standard for nitrate is relative to human health in public water supplies only.

	WATER QUALITY	WATER QUALITY DATA SETS CONSIDERED FOR the 2008 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments		
				157 stations with 4,206 sample events during last 2½ years of the assessment window (June 2004- December 2006)=		
Ambient data for general water quality assessments	ALUS- DO, pH, temperature SWIM- E. coli	Goose Creek Association Hazle Edens 540-687-3073 www.goosecreekassn.org/	QA/QC review by DEQ James Beckley, 804-698-4025. Based on review of protocols and methods, dissolved oxygen, pH, temperature, and E. coli data are acceptable for VA Category 3C and 3D purposes. Dissolved oxygen was not accepted due to malfunctioning equipment.	Reference letter February 15, 2008 to Hazle Edens.  22 stations with 132 sample events		
Ambient data for general water quality monitoring	ALUS – pH, temperature, total suspended solids, total phosphorus, total nitrogen	Historic Green Springs, Inc. Robin Patton (804) 698-4085	QA/QC review by DEQ Gary Du, 804-698-4189 Upon review of the sample collection protocols and analytical methods, temperature is acceptable for assessment. Dissolved oxygen, pH, and total phosphorus data were determined acceptable for assessment of water quality as VA Category 3C or 3D.	Reference letter February 15, 2008 to Robin Patton. Data for TSS and total nitrogen were not used for assessment because the state does not have water quality standards for comparison.  7 stations with 108 sample events		
Ambient lake monitoring	ALUS – DO, pH, temperature, total phosphorus, Secchi SWIM – Fecal coliform	Lake Anna Civic Association Ken Remmers www.lakeannavirginia.org	QA/QC review by DEQ Gary Du, 804-698-4189 Upon review of the sample collection protocols and analytical methods, pH, dissolved oxygen, temperature, total phosphorous and E. coli data collected after April 2003 were determined acceptable for assessment. Fecal coliform and temperature data collected from August 2002 to April 2003; dissolved oxygen and pH data collected prior to April	Reference letter of February 12, 2004 to Bob Weiner.  28 stations with 460 sample events collected from May 2001 to October 2006		

	WATER QUALITY DATA SETS CONSIDERED FOR the 2008 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments	
			2003 were used for assessment of water quality as VA Category 3C or 3D.		
Citizen biological monitoring program using ANS protocols and	ALUS – Benthic macroinvertebrates	Loudoun Wildlife Conservancy Darrell Schwalm	ANS QA/QC plan and SOPs for benthic macroinvertebrates Benthic macroinvertebrate data	Reference letter February 15, 2008 to Darrell Schwalm.	
ambient data for general water quality monitoring	SWIM- E. coli	703-430-4180 www.loudounwildlife.org	were used for assessment of water quality as VA Category 3C or 3D.	42 stations with 284 sample events collected from May 2001 to October 2006	
			QA/QC review by James Beckley, 804-698-4025. Upon successful completion of training, E. coli data using Coliscan® Easygel™, was used for assessment of water quality as VA Category 3C or 3D		
Ambient data for general water quality monitoring	SWIM- E. coli	Mattaponi and Pamunkey Rivers Association Joyce Brooks www.mpra.org/	QA/QC review by James Beckley, 804-698-4025. Upon successful completion of training, E. coli data using Coliscan® Easygel™, was used for assessment of water quality as VA Category 3C or 3D	Reference letter February 15, 2008 to Joyce Brooks  13 stations with 90 sample events.	
Ambient data for general water quality monitoring	SWIM- E. coli	McClure River Restoration Project Melissa Robinson	QA/QC review by Gary Du 804- 698-4189. Upon review of sample collection protocols and	Reference letter February 15, 2008 to Melissa Robinson.	
		276-926-6621 http://lpswcd.org/MRRP/MR RP.htm	analytical methods, E. coli samples collected after August 2006 were determined acceptable for assessment	13 stations with 37 sample events.	
Ambient data for general water quality monitoring	SWIM- E. coli	Opequon Watershed Inc. (FOSR member) Jim Lawrence	QA/QC review by James Beckley, 804-698-4025. Upon successful completion of training, E. coli data	Reference letter February 15, 2008 to Jim Lawrence	
		540-667-0761	using Coliscan® Easygel™, was used for assessment of water quality as VA Category 3C or 3D	25 stations with 208 sample events.	

	WATER QUALITY DATA SETS CONSIDERED FOR the 2008 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments	
Ambient data for general water quality monitoring	SWIM- E. coli	Randolph Macon College Dr. Charles Gowan 804-752-7293	QA/QC review by James Beckley, 804-698-4025. Upon successful completion of training, E. coli data using Coliscan® Easygel™, was used for assessment of water quality as VA Category 3C or 3D	Reference letter February 15, 2008 to Dr. Charles Gowan  12 stations with 106 observations collected September 2005 to October 2006.	
Ambient data for general water quality monitoring	SWIM- E. coli	RappFLOW Beverly Hunter 540-937-4038 www.rappflow.org/	QA/QC review by James Beckley, 804-698-4025. Upon successful completion of training, E. coli data using Coliscan® Easygel™, pH, temperature, and dissolved oxygen results were acceptable for of water quality as VA Category 3C or 3D	Reference letter February 15, 2008 to Beverly Hunter  19 stations with 65 observations collected from April 2006 to December 2006.	
Citizen biological monitoring program using VA SOS protocols	ALUS – Benthic macroinvertebrates	StreamWatch John Murphy (434) 242-1145 www.streamwatch.org	StreamWatch follows Save Our Streams sampling protocols and QA/QC procedures. Benthic macroinvertebrate data were used for assessment of water quality as VA Category 3C or 3D.	Reference letter February 15, 2008 to John Murphy  41 stations with 272 sampling events collected over the sixyear assessment window.	
Ambient data for general water quality monitoring	ALUS- DO, pH, temperature, nutrients, E. coli	Sweet Briar College Dr. David Orvos 434.381.6532	QA/QC review by DEQ Gary Du, 804-698-4189. Upon review of the sample collection protocol and analytical methods, E. coli data is acceptable for assessment use.	Reference QAPP approval in June of 2004. 6 stations with 6 measurements collected in May and June of 2004	
Ambient data for general water quality monitoring	ALUS – DO, pH, temperature, nutrients, Secchi SWIM- E. coli	Timberlake Homeowners Association	QA/QC review by James Beckley, 804-698-4025. Upon review of sampling methods, calibration logs, equipment and use of DCLS for samples, data is acceptable for assessment purposes.	Reference letter February 15 2008 to Kenneth Bumgarner  11 stations with 114 sample events from January to July 2006	

Appendix D

	WATER QUALITY DATA SETS CONSIDERED FOR the 2008 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments	
Ambient data for general water quality monitoring	ALUS – DO, pH, temperature, nitrate, nitrite, total phosphorus, TKN, solids SWIM – Fecal coliform	Upper Rappahannock Watershed Stream Monitoring Program Greg Wichelns 540-825-8591 www.rappmonitor.va.nacdn et.org	QA/QC review by DEQ Gary Du, 804-698-4189 Upon review of the sample collection protocols and analytical methods, dissolved oxygen, pH, and temperature data were determined acceptable for assessment of water quality as VA Category 3C or 3D. Fecal coliform and total phosphorus data were determined unacceptable for assessment due to sample collection methods.	Reference letter of February 12, 2004 to Greg Wichelns. Nitrite, solids, and TKN were not used directly for assessment because the state does not have water quality standards for comparison. The state has a water quality standard for nitrate relative to human health in public water supplies only.  27 stations with 97 measurements collected for 2 years of the assessment window	
Ambient data for general water quality monitoring	SWIM- E. coli	Upper Tennessee River Roundtable Martha Chapman (276) 628-1600 http://www.uppertnriver.org/	QA/QC review by James Beckley, 804-698-4025. Upon successful completion of training, E. coli data using Coliscan® Easygel™, was used for assessment of water quality as VA Category 3C or 3D	(2001-2002).  Reference letter February 15, 2008 to Martha Chapman  9 stations with 68 sample events collected from February to November 2006.	
Citizen biological monitoring program using VA SOS protocols	ALUS – Benthic macroinvertebrates	Virginia Save Our Streams Stacey Brown 804-615-5036 www.vasos.org	QA/QC plan and SOPs for benthic macroinvertebrates Alex Barron , 804-698-4119 Benthic macroinvertebrate data were used for assessment of water quality as VA Category 3C or 3D.	Reference letter February 15, 2008 to Stacy Brown.  241 stations with 759 sampling events collected over the sixyear assessment window.	
Soil and Water Conse	ervation Districts				
Ambient data for general water quality monitoring	SWIM- E. coli	Headwaters Soil and Water Conservation District Sandy Greene 540-248-6218, ext. 3 www.headwaters.vaswcd.or	QA/QC review by James Beckley, 804-698-4025. Upon successful completion of training, E. coli data using Coliscan® Easygel™, was used for assessment of water quality as VA Category 3C or 3D	Reference letter February 15, 2008 to Sandy Greene  10 stations with 49 sample events collected from March to December 2006	
Ambient data for general water quality monitoring	SWIM- E. coli	John Marshall Soil and Water Conservation District	QA/QC review by James Beckley, 804-698-4025. Upon successful	Reference letter February 15, 2008 to Chuck Hoysa	

Appendix D

	WATER QUALITY	DATA SETS CONSIDERED F	FOR the 2008 305(b) ASSESSMENT	•
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments
		Chuck Hoysa 540 347-3120 ext.3 www.fauquiercounty.gov/government/departments/jmswcd	completion of training, E. coli data using Coliscan® Easygel™, was used for assessment of water quality as VA Category 3C or 3D	10 stations with 160 sample events from October 2005 to December 2006
Ambient data for general water quality monitoring	SWIM- E. coli	Lord Fairfax and Water Conservation District Lisa Zirkle 540-335-1885 http://lfswcd.org	QA/QC review by James Beckley, 804-698-4025. Upon successful completion of training, E. coli data using Coliscan® Easygel™, was used for assessment of water quality as VA Category 3C or 3D	Reference letter February 15, 2008 to Lisa Zirkle  12 stations with 126 sample events from November 2005 to December 2006
Fecal coliform data short- term projects	SWIM – Fecal coliform	Lick Creek/Powell River Watershed Projects Shannon O'Quinn 423-239-2011	QA/QC review by DEQ Gary Du, 804-698-4189 Upon review of the sample collection protocols, analytical methods, and laboratory audit, the fecal coliform data were determined unacceptable for assessment due to deviations from Standard Methods.	Reference letter of February 12, 2004 to Shannon O'Quinn.  13 stations with 317 measurements collected for 2 months of the assessment window (June 2001 and June 2002).
DEQ Chesapeake Ba	y Program			
Chesapeake Bay Program Water Quality Monitoring	ALUS – DO, pH OW, DW, DC - DO	DEQ-CBP Rick Hoffman 804-698-4334	Documented QA/QC Plan Rick Hoffman, Cindy Johnston	Approx. 60 mainstem and tributary, and non-tidal stations monitored monthly
Chesapeake Bay Biological Monitoring Data	ALUS – Benthic B-IBI	DEQ-CBP Rick Hoffman 804-698-4334	Documented QA/QC Plan Rick Hoffman	Approx. 21 mainstem and tributary fixed stations, 100 random stations yearly
Chesapeake Bay Toxics Monitoring (Middle Tidal James River & Upper Tidal York R.)	ALUS – Sediment Organics, Sediment Metals, Toxicity Tests	DEQ-CBP Mark Richards 804-698-4392	Documented QA/QC Plan Mark Richards (Beth McGee Fish & Wildlife Service)	Five stations on each River; not part of annual monitoring program.
Chesapeake Bay Toxics Monitoring (Middle Tidal Rappahannock River)	ALUS – Sediment Organics, H20/Sediment Metals, H20/Sediment Toxicity Tests	DEQ-CBP Mark Richards 804-698-4392	Documented QA/QC Plan Mark Richards (Lenwood Hall, Univ. MD)	Ten stations; not part of annual monitoring program.
<b>DEQ Ambient Water</b>				
Ambient Watershed	ALUS - DO, pH, Temp,	DEQ-WQMA	Documented QA/QC Plan	Approximately 1400 stations

Appendix D

	WATER QUALITY DATA SETS CONSIDERED FOR the 2008 305(b) ASSESSMENT			
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments
Monitoring Program – Water column	SWIM – E. coli	Roger Stewart 804 698-4449	Gary Du 804 698-4189	monitored monthly or quarterly for entire 305(b) window.
Ambient Watershed Monitoring Program – Sediment Sampling, Water Column Toxics, Nutrients	ALUS – Sediment Organics, Sediment Metals, Phosphorus, Chlorophyll a Water Column Organics & Metals	DEQ-WQMA Roger Stewart 804 698-4449	Documented QA/QC Plan Gary Du 804 698-4189	Approximately 1400 stations monitored once a year for at least part of the 305(b) window.
DEQ Water Quality S	tandards Program			
Biological Monitoring Program	ALUS – Benthic (bottom dwelling) macrophytes	DEQ-WQS Jean Gregory 804-698-4113	Protocols and QA/QC Plan Alex Barron 804 689-4119	Approximately 200 stations sampled twice a year (spring & fall) by Regional Biologists
Biological Monitoring Program	ALUS - DO, pH, Temp	DEQ-WQS Jean Gregory 804-698-4113	Followed ambient watershed QA/QC procedures	Ambient field parameters measured by regional biologists during biological monitoring.
Statewide Fish Tissue Program	FISH – Fish Tissue	DEQ-WQS Jean Gregory 804-698-4113	Protocols and QA/QC Plan Alex Barron 804 689-4119	Approximately 40-80 selected stations sampled each year.
Statewide Sediment Contamination Program	ALUS – Sediment Organics, Sediment Metals	DEQ-WQS Jean Gregory 804-698-4113	Protocols and QA/QC Plan Alex Barron 804 689-4119	Approximately 40-80 selected stations sampled each year.
Statewide Lake Monitoring	ALUS – DO, pH, Temp, Sediment Organics, Sediment Metals, nutrients, chlorophyll-a SWIM – E. coli	DEQ-WQS Jean Gregory 804-698-4113	Follow ambient watershed QA/QC	Approx. 100 significant lakes Regions sample priority ranked lakes 3 seasons for one year out of 5 on rotation
James River Monitoring of Fish Tissue for Kepone	ALUS – Kepone	DEQ-WQS Alex Barron	Protocols for fish sampling Kepone verified by VIMS Alex Barron 804 698-4119	Five stations in James River sampled once every two years.
DEQ Special Studies				
Coastal 2000 - Estuarine Probabilistic Monitoring (minor Chesapeake Bay and coastal tidal tributaries)	ALUS, DO, pH, Temp, nutrients, chlorophyll-a, Sediment triad (chemistry, toxicity, benthos), fish tissue chemistry	DEQ-CO Donald H. Smith (804) 698-4429. QA/QC considerations: Gary Du	QA/QC by Gary Du in field audits, at DCLS laboratories and of locally analyzed results; John McCauley (EPA) and Tom Heitmuller (USGS) for EPAcontracted laboratories	Cumulative parameter data, such as sediment and tissue chemistry, sediment toxicity and benthic community structure are assessed using a 'weight of evidence' approach as soon as they return from EPA-contracted

	WATER QUALITY	DATA SETS CONSIDERED	FOR the 2008 305(b) ASSESSME	NT
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments
		(804) 698-4189		laboratories. Single event, water column 'grab sample' data, is used for probabilistic resource characterizations, but not for water body assessments.  199 sample stations with 1956 samples collected during the six year assessment window
Bacteria study in Rapidan River and Blue Run	Fecal coliform, E. coli	DEQ- NRO Bryant Thomas (703) 583-3843	Followed ambient watershed QA/QC procedures	8 stations
Bacteria study in Hazel and Thornton Rivers	Fecal coliform, E. coli	DEQ- NRO Bryant Thomas (703) 583-3843	Followed ambient watershed QA/QC procedures	5 stations
Bacteria study in Mine, Mountain Run	Fecal coliform, E. coli	DEQ- NRO Bryant Thomas (703) 583-3843	Followed ambient watershed QA/QC procedures	4 stations
Bacteria study in Occoquan River and Little Bull Run	Fecal coliform, E. coli	DEQ- NRO Bryant Thomas (703) 583-3843	Followed ambient watershed QA/QC procedures	7 stations
Bacteria study in Robinson River and Little Dark Run	Fecal coliform, E. coli	DEQ- NRO Bryant Thomas (703) 583-3843	Followed ambient watershed QA/QC procedures	4 stations
Bacteria study in the Rappahannock River	Fecal coliform, E. coli	DEQ- NRO Bryant Thomas (703) 583-3843	Followed ambient watershed QA/QC procedures	2 stations
Bacteria study on Broad Run and Kettle Run	Fecal coliform, E. coli	DEQ- NRO Bryant Thomas (703) 583-3843	Followed ambient watershed QA/QC procedures	7 stations
Biological stressors study on Bull Run and Popes Head Creek	Ambient, sediment, and benthic macro invertebrate	DEQ- NRO Bryant Thomas (703) 583-3843	Followed QA/QC procedures	2 stations
Carter Run TMDL	SWIM – Bacteria	DEQ- NRO Bryant Thomas (703) 583-3843	Followed ambient watershed QA/QC procedures	2 stations
Cedar Run TMDL	SWIM- Fecal coliform	DEQ- NRO Bryant Thomas (703) 583-3843	Followed ambient watershed QA/QC procedures	6 stations

	WATER QUALITY DATA SETS CONSIDERED FOR the 2008 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments	
Deep Run TMDL	SWIM- Fecal coliform	DEQ- NRO Bryant Thomas (703) 583-3843	Followed ambient watershed QA/QC procedures	3 stations	
Difficult Run TMDL	SWIM- E. coli ALUS- Benthic	DEQ- NRO Bryant Thomas (703) 583-3843	Followed ambient watershed QA/QC procedures	3 stations	
Great Run TMDL	SWIM- Fecal coliform	DEQ- NRO Bryant Thomas (703) 583-3843	Followed ambient watershed QA/QC procedures	2 stations	
Lake Anna Tributaries TMDL (Goldmine, Beaver, Pamunkey and Plentiful Creeks, Mountain & Terrys Run)	ALUS- pH SWIM- Fecal coliform	DEQ- NRO Bryant Thomas (703) 583-3843	Followed ambient watershed QA/QC procedures	11 stations in 6 TMDL creeks feeding into Lake Anna	
Licking Run TMDL	SWIM- E. coli	DEQ- NRO Bryant Thomas (703) 583-3843	Followed ambient watershed QA/QC procedures	3 stations	
Limestone Branch TMDL	SWIM- Fecal coliform	DEQ- NRO Bryant Thomas (703) 583-3843	Followed ambient watershed QA/QC procedures	2 stations	
Lower Rapidan River TMDL	SWIM- Fecal coliform	DEQ- NRO Bryant Thomas (703) 583-3843	Followed ambient watershed QA/QC procedures	7 stations	
Muddy Run TMDL	SWIM- E. coli	DEQ- NRO Bryant Thomas (703) 583-3843	Followed ambient watershed QA/QC procedures	4 stations	
Neabsco Creek TMDL	SWIM- E. coli	DEQ- NRO Bryant Thomas (703) 583-3843	Followed ambient watershed QA/QC procedures	2 stations	
Piney Run TMDL	SWIM- Fecal coliform	DEQ- NRO Bryant Thomas (703) 583-3843	Followed ambient watershed QA/QC procedures	1 station	
Potomac River Tributary TMDL	ALUS- Benthic SWIM- E. coli	DEQ- NRO Bryant Thomas (703) 583-3843	Followed ambient watershed QA/QC procedures	9 stations	
Potomac River PCB Study	FISH- PCB's	DEQ- NRO Bryant Thomas (703) 583-3843	Followed ambient watershed QA/QC procedures	28 stations	

	WATER QUALITY DATA SETS CONSIDERED FOR the 2008 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments	
Appomattox River TMDL	SWIM- E. coli (BST) ALUS – DO, Temp, pH	DEQ- PRO Mark Alling (804) 527-5021	Documented QA/QC Plan Roger Stewart	16 stations	
Butterwood Creek & Tributaries TMDL	ALUS-DO, pH	DEQ- PRO Mark Alling (804) 527-5021	Followed ambient watershed QA/QC procedures	17 stations	
Cypress Swamp TMDL	ALUS- DO, pH SWIM- Fecal coliform	DEQ- PRO Mark Alling (804) 527-5021	Followed ambient watershed QA/QC procedures	13 stations	
Dragon Swamp Mercury Study	FISH- Mercury	DEQ- PRO Mark Alling (804) 527-5021	Followed ambient watershed QA/QC procedures	13 stations	
DSCR Study	ALUS – DO, pH, Temp, organics SWIM- Fecal coliform	DEQ- PRO Mark Alling (804) 527-5021	Followed ambient watershed QA/QC procedures	10 stations	
Fourmile Creek TMDL	ALUS – DO, pH, Temp	DEQ- PRO Mark Alling (804) 527-5021	Followed ambient watershed QA/QC procedures	13 stations	
Hoskins Creek TMDL	ALUS- pH	DEQ- PRO Mark Alling (804) 527-5021	Followed ambient watershed QA/QC procedures	3 stations	
James River CSO Study	ALUS -DO, pH, Temp SWIM - Fecal coliform	DEQ- PRO Mark Alling (804) 527-5021	Followed ambient watershed QA/QC procedures	30 stations twice a month May through October 1994-2001	
James River Park Bacteria Study	SWIM- Fecal coliform, E. Coli	DEQ- PRO Mark Alling (804) 527-5021	Followed ambient watershed QA/QC procedures	5 stations	
Matadequin Creek TMDL	ALUS – DO, pH, Temp SWIM- Fecal coliform	DEQ- PRO Mark Alling (804) 527-5021	Followed ambient watershed QA/QC procedures	Bridges and streamwalk- 80 stations	
Mattaponi River TMDL	FISH Advisory	DEQ- PRO Mark Alling (804) 527-5021	Followed ambient watershed QA/QC procedures	3 stations	
Mechumps Creek TMDL	ALUS - DO, pH, Temp	DEQ- PRO Mark Alling (804) 527-5021	Followed ambient watershed QA/QC procedures	Bridges and streamwalk- 109 stations	
Mount Landing Creek TMDL	ALUS – DO, pH, Temp	DEQ- PRO Mark Alling	Followed ambient watershed QA/QC procedures	4 stations	

WATER QUALITY DATA SETS CONSIDERED FOR the 2008 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments
		(804) 527-5021		
Occupacia Creek TMDL	SWIM- Fecal coliform	DEQ- PRO	Followed ambient watershed	8 stations
		Mark Alling	QA/QC procedures	
		(804) 527-5021		
Pamunkey River TMDL	SWIM- Fecal coliform	DEQ- PRO	Followed ambient watershed	10 stations
		Mark Alling	QA/QC procedures	
		(804) 527-5021		
Pfiesteria Monitoring	ALUS – DO, pH, temp,	DEQ- PRO	Followed ambient watershed	69 stations
Study	ammonia, chlorophyll a,	Mark Alling	QA/QC procedures	
	phosphorus, algae	(804) 527-5021		
Pine Hill Creek TMDL	ALUS- pH, DO	DEQ- PRO	Followed ambient watershed	5 stations
		Mark Alling	QA/QC procedures	
Discrete a Const TMDI	ALLIO DO ALL GARAGO	(804) 527-5021	Falls and subtract advantage	Deltara and decay all 44
Piscataway Creek TMDL	ALUS – DO, pH, temp	DEQ- PRO	Followed ambient watershed	Bridges and streamwalk- 41
		Mark Alling	QA/QC procedures	stations
Raccoon & Spring Creek	ALUS- Benthic	(804) 527-5021 DEQ- PRO	Followed ambient watershed	15 stations
TMDL	ALUS- Bentinic	Mark Alling	QA/QC procedures	15 Stations
TIVIDE		(804) 527-5021	QA/QC procedures	
Roses Creek TMDL	SWIM- Fecal coliform	DEQ- PRO	Followed ambient watershed	3 stations
1.0000 Grook TWBE	Sviivi i edai delliettii	Mark Alling	QA/QC procedures	o didiiono
		(804) 527-5021	a, v do proceduros	
Sappony Creek TMDL	ALUS- DO	DEQ- PRO	Followed ambient watershed	8 stations
	Coliform	Mark Alling	QA/QC procedures	
		(804) 527-5021		
South Anna River TMDL	SWIM- Fecal coliform	DEQ- PRO	Followed ambient watershed	6 stations
		Mark Alling	QA/QC procedures	
		(804) 527-5021	•	
Spring Branch TMDL	ALUS- Benthic	DEQ- PRO	Followed ambient watershed	10 stations
		Mark Alling	QA/QC procedures	
		(804) 527-5021		
Totopotomoy Creek	SWIM- Fecal coliform	DEQ- PRO	Followed monitoring QA/QC	1 station
TMDL	ALUS- Benthic	Mark Alling	procedures	
<u> </u>	1	(804) 527-5021	<u> </u>	
Tuckahoe Creek TMDL	ALUS – DO, pH, Temp,	DEQ- PRO	Followed ambient watershed	32 stations
	Phos	Mark Alling	QA/QC procedures	
Han an Tributania a ta	SWIM- Fecal coliform	(804) 527-5021	Fallering discretic OA/OC	5 stations
Upper Tributaries to	ALUS- Benthic	DEQ- PRO	Followed benthic QA/QC	5 stations

	WATER QUALITY DATA SETS CONSIDERED FOR the 2008 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments	
Chickahamony River TMDL		Mark Alling (804) 527-5021	procedures		
White Oak Swamp TMDL	ALUS – DO, pH, Temp	DEQ- PRO Mark Alling (804) 527-5021	Followed ambient watershed QA/QC procedures	10 stations	
Winterpock Creek TMDL	ALUS - DO, pH, Temp	DEQ- PRO Mark Alling (804) 527-5021	Followed ambient watershed QA/QC procedures	Bridges and streamwalk - 47 stations	
Winticomack Creek TMDL	ALUS – DO, pH, Temp, Phos, Ammonia Swimming – FC	DEQ- PRO Mark Alling (804) 527-5021	Followed ambient watershed QA/QC procedures	9 stations	
Ash Camp Creek (Source Assessment 2001-2002)	SWIM – Fecal coliform ALUS – DO, pH, Temperature, BOD5, TSS, Nutrients	DEQ- SCRO Fred DiLella (434) 582-5120	Followed ambient watershed QA/QC procedures	3 stations	
Banister River TMDL	SWIM- E. coli	DEQ- SCRO Fred DiLella (434) 582-5120	Followed ambient watershed QA/QC procedures	21 stations	
Dan River TMDL	SWIM- E. coli	DEQ- SCRO Fred DiLella (434) 582-5120	Followed ambient watershed QA/QC procedures	13 stations	
Flat Creek (Pre TMDL)	SWIM- Fecal coliform ALUS- Benthic	DEQ- SCRO Fred DiLella (434) 582-5120	Followed QA/QC protocols	3 stations	
Flat Rock Creek TMDL	SWIM- Fecal coliform	DEQ- SCRO Fred DiLella (434) 582-5120	Followed ambient watershed QA/QC procedures	8 stations	
Great Creek TMDL	SWIM- Fecal coliform	DEQ- SCRO Fred DiLella (434) 582-5120	Followed ambient watershed QA/QC procedures	5 stations	
Hog Farm Follow-up Special Study	ALUS- general water quality monitoring	SCRO- Kyle Winter	Followed ambient watershed QA/QC procedures	17 stations	
Lynchburg Watershed TMDL	SWIM- E. coli	DEQ- SCRO Fred DiLella (434) 582-5120	Followed ambient watershed QA/QC procedures	13 stations	
Pedlar River Reservoir pH Special Study	ALUS- pH	DEQ- SCRO Fred DiLella (434) 582-5120	Followed ambient watershed QA/QC procedures	6 stations	

WATER QUALITY DATA SETS CONSIDERED FOR the 2008 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments
Slate River TMDL	SWIM- E. coli	DEQ- SCRO Fred DiLella (434) 582-5120	Followed ambient watershed QA/QC procedures	14 stations
Beaver Creek TMDL	SWIM – Bacteria Benthic Impairment FISH Advisory ALUS – DO, Temp, pH,	DEQ- SWRO Allen Newman (276) 676-4804	Documented QA/QC Plan Roger Stewart	15 stations
Bull Creek TMDL	ALUS- Benthic	DEQ- SWRO Allen Newman (276) 676-4804	Followed ambient watershed QA/QC procedures	2 stations
Callahan Creek TMDL	ALUS-Benthic SWIM- Fecal coliform	DEQ- SWRO Allen Newman (276) 676-4804	Followed ambient watershed QA/QC procedures	1 station
Chestnut Creek TMDL	ALUS- Benthic SWIM- Fecal coliform	DEQ- SWRO Allen Newman (276) 676-4804	Followed QA/QC procedures	3 stations
Clinch River TMDL	ALUS- Benthic SWIM- Fecal coliform	DEQ- SWRO Allen Newman (276) 676-4804	Documented QA/QC Plan	2 stations
Garden Creek TMDL	ALUS- Benthic SWIM- Fecal coliform	DEQ- SWRO Allen Newman (276) 676-4804	Documented QA/QC Plan	9 stations
Guest River TMDL	ALUS- Benthic	DEQ- SWRO Allen Newman (276) 676-4804	Followed QA/QC procedures	6 stations
Hunting Camp Creek TMDL	ALUS- Benthic SWIM- Fecal coliform	DEQ- SWRO Allen Newman (276) 676-4804	Followed QA/QC procedures	5 stations
Indian Creek (Pre TMDL)	ALUS- Benthic SWIM- Fecal coliform	DEQ- SWRO Allen Newman (276) 676-4804	Followed QA/QC procedures	5 stations
Knox Creek TMDL	ALUS- Benthic FISH- PCB's SWIM- Fecal coliform	DEQ- SWRO Allen Newman (276) 676-4804	Followed QA/QC procedures	1 station
Laurel Fork TMDL	ALUS- DO SWIM- Fecal coliform	DEQ- SWRO Allen Newman (276) 676-4804	Followed ambient QA/QC Plan	10 stations
Lewis Creek TMDL	ALUS-Benthic	DEQ- SWRO	Documented QA/QC Plan	3 stations

	WATER QUALITY DATA SETS CONSIDERED FOR the 2008 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments	
		Allen Newman (276) 676-4804			
Lick Creek TMDL	ALUS- Benthic SWIM- Fecal coliform	DEQ- SWRO Allen Newman (276) 676-4804	Documented QA/QC Plan	4 stations	
Middle Creek TMDL	ALUS- Benthic	DEQ- SWRO Allen Newman (276) 676-4804	Documented QA/QC Plan	1 station	
North Fork Holston TMDL	FISH- Mercury	DEQ- SWRO Allen Newman (276) 676-4804	Followed ambient watershed QA/QC procedures	5 stations	
North and South Fork Pound River TMDL	ALUS- Benthic	DEQ- SWRO Allen Newman (276) 676-4804	Followed ambient watershed QA/QC procedures	6 stations	
North Fork Powell River TMDL	SWIM- Fecal coliform ALUS- Benthic	DEQ- SWRO Allen Newman (276) 676-4804	Followed ambient watershed QA/QC procedures	3 stations	
Powell River TMDL	ALUS- Benthic SWIM- Fecal coliform	DEQ- SWRO Allen Newman (276) 676-4804	Documented QA/QC Plan	2 stations	
Red Bank Creek (TMDL Support)	SWIM- Fecal coliform	DEQ- SWRO Allen Newman (276) 676-4804	Followed ambient watershed QA/QC procedures	5 stations	
Stock Creek TMDL	FISH Use- PCB's	DEQ- SWRO Allen Newman (276) 676-4804	Documented QA/QC Plan	3 stations	
Straight Creek TMDL	ALUS- Benthic SWIM- Fecal coliform	DEQ- SWRO Allen Newman (276) 676-4804	Documented QA/QC Plan	6 stations	
2004/2005 VRO Bacteria Source Tracking Special Study	SWIM- Fecal coliform, E. coli	DEQ- VRO Donald Kain (540) 574-7815	Followed QA/QC Procedures	5 stations	
VRO 2005-2006 BST (Ballinger, NF Hardware, Rock Island, Hays)	SWIM- E. coli	DEQ- VRO Donald Kain (540) 574-7815	Followed QA/QC Procedures	8 stations	
Cooks Creek and Blacks Run TMDL	SWIM- E. coli	DEQ- VRO Donald Kain (540) 574-7815	Followed QA/QC Procedures	6 stations	

	WATER QUALITY DATA SETS CONSIDERED FOR the 2008 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments	
Cub Run TMDL	SWIM- Fecal coliform	DEQ- VRO Donald Kain (540) 574-7815	Documented QA/QC Plan	1 station	
Fridley Run TMDL	ALUS- Benthic	DEQ- VRO Donald Kain (540) 574-7815	Followed QA/QC procedures	1 station	
Hawksbill Creek TMDL	SWIM- Fecal coliform ALUS- Temperature	DEQ- VRO Donald Kain (540) 574-7815	Documented QA/QC Plan	5 stations	
Hogue Creek TMDL	ALUS- Benthic, temperature SWIM- Fecal coliform	DEQ- VRO Donald Kain (540) 574-7815	Followed ambient watershed QA/QC procedures	3 stations	
Holmans Creek (TMDL Implementation)	SWIM- Fecal coliform ALUS- Benthic	DEQ- VRO Donald Kain (540) 574-7815	Followed ambient watershed QA/QC procedures	1 station	
Lewis Creek TMDL (Augusta County)	ALUS-Benthic FISH- PCB's SWIM- Fecal coliform	DEQ- VRO Donald Kain (540) 574-7815	Documented QA/QC Plan	15 stations	
Little Calfpasture River TMDL	ALUS- Benthic	DEQ- VRO Donald Kain (540) 574-7815	Followed ambient watershed QA/QC procedures	2 stations	
Little Calfpasture Turbidity Study	Turbidity	DEQ- VRO Donald Kain (540) 574-7815	Followed QA/QC Procedures	6 stations	
Mill Creek (TMDL Support)	SWIM – Bacteria ALUS – DO, Temp, pH, TP, NH3-N, Flow	DEQ- VRO Donald Kain (540) 574-7815	Follow ambient QA/QC Plan	2 stations	
Maury River TMDL	ALUS- Benthic FISH- PCB's	DEQ- VRO Donald Kain (540) 574-7815	Follow ambient QA/QC Plan	5 stations	
Moffett Creek TMDL	ALUS- Benthic SWIM- Fecal coliform	DEQ- VRO Donald Kain (540) 574-7815	Follow ambient QA/QC Plan	2 stations	
Moores Creek TMDL	SWIM- E. coli ALUS- Benthic	DEQ- VRO Donald Kain (540) 574-7815	Follow ambient QA/QC Plan	3 stations	
North Fork Rivanna and Rivanna River TMDL	ALUS- Benthic	DEQ- VRO Donald Kain	Follow ambient QA/QC Plan	5 stations	

	WATER QUALITY DATA SETS CONSIDERED FOR the 2008 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments	
		(540) 574-7815			
North Fork Shenandoah	ALUS- Unknown	DEQ- VRO	Follow ambient QA/QC Plan	27 stations	
River Fish Kill Study		Donald Kain			
		(540) 574-7815			
North Fork Shenandoah	SWIM- E. coli	DEQ- VRO	Followed ambient watershed	9 stations	
River TMDL		Donald Kain	QA/QC procedures		
		(540) 574-7815			
North River TMDL	SWIM- Fecal coliform	DEQ- VRO	Followed ambient watershed	7 stations	
		Donald Kain	QA/QC procedures		
		(540) 574-7815			
North River Tributary	SWIM- E. coli	DEQ- VRO	Followed ambient watershed	4 stations	
TMDL Implementation		Donald Kain	QA/QC procedures		
		(540) 574-7815			
Opequon and Abrams	SWIM- E. coli	DEQ- VRO	Followed ambient watershed	8 stations	
Creek TMDL		Donald Kain	QA/QC procedures		
0 " 0 TMD	1110 5 11	(540) 574-7815			
Quail Run TMDL	ALUS- Benthic	DEQ- VRO	Followed ambient watershed	5 stations	
	SWIM- Fecal coliform	Donald Kain	QA/QC procedures		
Chanandach Divan Fish	ALLIC Halmanna	(540) 574-7815	Fallow archiont OA/OC Plan	07 stations	
Shenandoah River Fish	ALUS- Unknown	DEQ- VRO	Follow ambient QA/QC Plan	27 stations	
Kill Study		Donald Kain			
Shenandoah River	Maraum	(540) 574-7815 DEQ- VRO	Followed QA/QC	1C stations	
	Mercury	Deg- VRO Donald Kain	Procedures	16 stations	
Mercury Study		(540) 574-7815	Procedures		
Smith Creek TMDL	SWIM- Fecal coliform	DEQ- VRO	Followed ambient watershed	3 stations	
Sillill Creek HVIDL	Swiivi- Fecai collioitii	Donald Kain	QA/QC procedures	3 Stations	
		(540) 574-7815	QA/QC procedures		
South River Intensive	Mercury	DEQ- VRO	Followed QA/QC Procedures	74 stations	
Water Column Mercury	Wichouty	Donald Kain	1 onowed Q/VQO 1 roocdares	7 - Stations	
Sweep		(540) 574-7815			
Stony Creek TMDL	SWIM- Fecal coliform	DEQ- VRO	Followed ambient watershed	2 stations	
2.2, 2.2022		Donald Kain	QA/QC procedures		
		(540) 574-7815			
Strait Creek TMDL	ALUS- Benthic	DEQ- VRO	Followed ambient watershed	6 stations	
		Donald Kain	QA/QC procedures		
		(540) 574-7815	,		
Toms Brook TMDL	ALUS- Benthic	DEQ- VRO	Followed ambient watershed	5 stations	

	WATER QUALITY DATA SETS CONSIDERED FOR the 2008 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments	
		Donald Kain (540) 574-7815	QA/QC procedures		
Blackberry Creek TMDL	SWIM – Bacteria (BST) ALUS – DO, Temp, pH	DEQ- WCRO Jason Hill (540) 562-6724	Follow ambient QA/QC Plan	21 stations	
Blackwater River (TMDL Support/Implementation)	ALUS – DO, Temp, pH, RBP II Surveys	DEQ- WCRO Jason Hill (540) 562-6724	Follow ambient QA/QC Plan	8 stations	
Bluestone River TMDL	SWIM- Fecal coliform ALUS- Benthic FISH- PCB	DEQ- WCRO Jason Hill (540) 562-6724	Follow ambient QA/QC Plan	11 stations	
Looney Mill Creek (TMDL Support)	SWIM – Bacteria (BST) ALUS – DO, Temp, pH	DEQ- WCRO Jason Hill (540) 562-6724	Documented QA/QC Plan Roger Stewart	1 station	
New River Valley TMDL	ALUS- Benthic SWIM- Fecal coliform FISH- PCB's	DEQ- WCRO Jason Hill (540) 562-6724	Followed ambient watershed QA/QC procedures	7 stations	
Pigg River Watershed TMDL	SWIM- Fecal coliform	DEQ- WCRO Jason Hill (540) 562-6724	Followed ambient watershed QA/QC procedures	14 stations	
Reed Creek (TMDL Support)	SWIM – Bacteria (BST) ALUS – DO, Temp, pH	DEQ- WCRO Jason Hill (540) 562-6724	Documented QA/QC Plan Roger Stewart	3 stations	
Roanoke River Watershed TMDL	ALUS- Temperature, Fish Tissue PCB SWIM- Fecal coliform	DEQ- WCRO Jason Hill (540) 562-6724	Followed ambient watershed QA/QC procedures	18 stations	
South Mayo River (TMDL Support)	SWIM – Bacteria (BST) ALUS – DO, Temp, pH	DEQ- WCRO Jason Hill (540) 562-6724	Documented QA/QC Plan Roger Stewart	1 station	
Stroubles Creek (TMDL Support)	ALUS – DO, Temp, pH, RBP II Surveys	DEQ- WCRO Jason Hill (540) 562-6724	Documented QA/QC Plan Roger Stewart	5 stations	
Three Creeks TMDL	ALUS- Benthic SWIM- Fecal coliform	DEQ- WCRO Jason Hill (540) 562-6724	Followed ambient watershed QA/QC procedures	3 stations	
Tinker Creek Watershed TMDL	SWIM – Bacteria (BST) ALUS – DO, Temp, pH	DEQ- WCRO Jason Hill (540) 562-6724	Documented QA/QC Plan Roger Stewart	10 stations	

WATER QUALITY DATA SETS CONSIDERED FOR the 2008 305(b) ASSESSMENT						
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments		
Non-Citizen, Non-Age	Non-Citizen, Non-Agency Monitoring					
Ambient data for general water quality monitoring	ALUS – BOD5, DO, pH, temperature, nitrate, total phosphorus SWIM – E. coli	Abingdon Sewage Treatment Plant Mike Maiden 276-628-4321	QA/QC review by Gary Du and James Beckley. Upon reviewing SOP and calibration logs, pH, temperature, nitrate, total phosphorus, and E. coli data is acceptable for assessment use. Dissolved oxygen and BOD5 data is not accepted for assessment purposes.	Reference letter February 15, 2008 to Mike Maiden  1 station with 82 sample events collected during the six year assessment window		
Ambient water quality monitoring	ALUS- DO, pH, temperature, E. Coli, nutrients, hardness, total suspended solids	Chesterfield County Office of Water Quality Weedon Cole 804-748-1035 www.co.chesterfield.va.us/communitydevelopment/waterquality/	QA/QC review by James Beckley. DO, pH, temperature data is acceptable for assessment use for VA Category 3C and 3D. E. coli and nutrient data does not meet QA/QC requirements for assessment use.	Reference letter February 15, 2008 to Weedon Cole  40 stations with 930 sample events for 5 years of the assessment window (January 2002 to December 2006)		
Ambient data for general water quality monitoring	ALUS – DO, pH, temperature	City of Newport News Raw Water Monitoring Program Horace B. Davis Jr. 804-966-9887	QA/QC review by Gary Du and James Beckley. Upon reviewing SOP and calibration logs, dissolved oxygen, pH, and temperature data is acceptable for assessment use.	Reference letter February 15, 2008 to Horace B. Davis Jr. 6 stations with 979 sample events collected during the six year assessment window		
Routine reservoir monitoring	ALUS – DO, pH , Temperature	City of Norfolk Lakes Program David S. Rosenthal, CLM Reservoir Manager 757-441-5678 ext. 253 www.norfolk.gov/utilities/wa terworks.asp	QA/QC review by Gary Du at laboratory in City of Norfolk. Data collected for dissolved oxygen, pH, and temperature using DEQ calibration protocols accepted for assessment use.	Reference letter September 5, 2002 to David Rosenthal.  20 stations with approximately 323 sample events for 2 years of the assessment window (February 2003- December 2004)		
Ambient data for general water quality monitoring	ALUS- conductivity, pH, solids	Cumberland Resources Corporation	QA/QC review by Gary Du, (804) 698-4189. Upon review of sampling procedures and laboratory protocols, pH data is accepted for assessment use.	6 sample stations with 26 sample events collected from August to December 2005.  Conductivity and solids data are not included in the assessment due to no associated water quality standards.		

	WATER QUALITY DATA SETS CONSIDERED FOR the 2008 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments	
Water Quality Monitoring	ALUS- benthic monitoring, general water quality monitoring	EPA www.epa.gov/regon03	QA/QC review by James Beckley (804) 698-4025. Benthic monitoring follows EPA protocols. QA/QC information on laboratory procedures and field calibration log information was not available for review.	4 stations with 15 sample events collected from November 2005 to March 2006.	
			Benthic data accepted for assessment use. Water chemistry data not accepted.		
Water quality monitoring	ALUS- general water quality monitoring	NPS- Fredericksburg and Spotsylvania National Military Parks	Submitted water chemistry data did not have accompanying QA/QC information. Water	Reference letter February 15, 2008 to Gregg Kneipp	
		Gregg Kneipp 540-654-5331	chemistry data not accepted.	17 stations with 228 sample events collected form August 2003 to April 2006.	
Water quality monitoring	ALUS- benthic monitoring, general water quality monitoring	NPS- National Capital Region Network Marian Norris 202 342-1443	Benthic macroinvertebrate data collected using Virginia Save Our Streams protocol. Benthic data was submitted under Virginia Save Our Streams.	Reference letter February 15, 2008 to Marian Norris 21 stations with 209 sample events collected from June 2005 to November 2006	
			Submitted water chemistry data did not have accompanying QA/QC information. Water chemistry data not accepted		
Water quality monitoring	ALUS- benthic monitoring	NPS- Richmond Area National Parks Kristen Allen	Benthic data is acceptable for assessment use as VA Category 3C and 3D.	Reference letter February 15, 2008 to Kristen Allen	
		804-795-5019		9 stations with 18 sample events collected from October 2003 to November 2006.	
Water quality monitoring	ALUS-benthic monitoring, general water quality monitoring	NPS- Shenandoah National Park Gordon Olson 570-999-3497 www.nps.gov/shen	QA/QC review by Gary Du and James Beckley. Upon reviewing SOP and calibration logs, DO, pH, and temperature data is not acceptable for assessment use. Benthic data is acceptable for	91 stations with 206 sample events from January 2001 to October 2004.	

	WATER QUALITY DATA SETS CONSIDERED FOR the 2008 305(b) ASSESSMENT					
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments		
			assessment use as VA Category 3C and 3D.			
Routine reservoir monitoring	ALUS- DO, pH, temperature	Occoquan Watershed Monitoring Laboratory Harry Post 703-361-5606 www.owml.vt.edu/	QA/QC review by Gary Du, 804-698-4189. Upon review of the sample collection protocols, analytical methods, and laboratory audit, dissolved oxygen, pH, an temperature data is accepted by DEQ	Reference letter February 15, 2008 to Harry Post  4 stations with 8,796 sample events collected during six years of the assessment window		
Ambient data for general water quality monitoring	SWIM- E. coli	Page County Department of Environmental Services Chris Anderson (540) 743-4808	QA/QC review by James Beckley, 804-698-4025. Upon successful completion of training, E. coli data using Coliscan® Easygel™, was used for assessment of water quality as VA Category 3C or 3D	Reference letter February 15, 2008 to Chris Anderson  18 stations with 183 observations collected from September 2005 to December 2006.		
Ambient lake monitoring	ALUS- DO, pH, temperature	Reston Association Nicki Foremsky 703-435-6560 www.reston.org	Data submitted in time for consideration did not provide sufficient QA/QC information or metadata. Data was not included in the assessment report	Reference letter February 15, 2008 to Nicki Foremsky  6 stations with approximately 144 sample events collected between May and September for six years of the assessment window.		
Routine reservoir monitoring	SWIM- E. coli & fecal coliform	TVA Rebecca Hayden (423) 876-6736 www.tva.gov/environment/ water	QA/QC review by Gary Du at laboratory in Johnson City, TN.	2 stations with 71 observations from May 2002 to June 2006		
Ambient data for general water quality monitoring	ALUS- pH	University of Virginia- Shenandoah River Monitoring Project Rick Webb 434-924-1301	QA/QC review by DEQ Gary Du, 804-698-4189 Upon review of the sample collection protocols, analytical methods, and laboratory audit, pH readings analyzed in the field are acceptable for assessment use.	20 sample stations with 240 sample events collected for 1 year of the assessment report (October 2003- September 2004)		
Water quality monitoring	Overall WQM	USGS Kenneth E. Hyer (804)-261-2636	Standard methods are used.  Data included in assessment for parameters that have Virginia	58 stations with 4510 sample events from January 2001 to December 2004.		

	WATER QUALITY DATA SETS CONSIDERED FOR the 2008 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments	
		http://va.water.usgs.gov	Water Quality Standards		
Water quality monitoring	ALUS-benthic monitoring	USFS Dawn Kirk 540-291-5211 www.fs.fed.us	ALUS method comparable to DEQ protocols.	131 stations with 186 biological sample events collected from April 2001 to July 2006.	
Water quality monitoring	SWIM- Fecal Enterococcus, E. coli	Virginia Department of Health Beach Monitoring Program Michelle Monti 804-864-8141 www.vdh.virginia.gov/epide miology/DZEE/BeachMonit oring/	Methods for sampling E. coli and Enterococcus are consistent with DEQ sampling and testing procedures. Bacteria data is acceptable for assessment purposes.	51 stations with 3,335 bacteria samples collected from May to October during the six year assessment window.	
Water quality monitoring	SWIM- Fecal Coliform SHELL- Fecal Coliform	Virginia Department of Health Shellfish Sanitation Monitoring Program Keith Skiles 804-864-7480 www.vdh.state.va.us/Enviro nmentalHealth/Shellfish/ind ex.htm	Although methods for sampling fecal coliform are constant with DEQ sampling protocols and procedures, fecal coliform is no longer used to assess waters for recreational contact in areas designated as shellfish waters.  VDH shellfish area closures and advisories are included to assess waters for shellfish consumption.	Reference letter February 15, 2008 to Keith Skiles  2,284 stations with approximately 150,000 sample events collected from January 2001 to December 2006.	